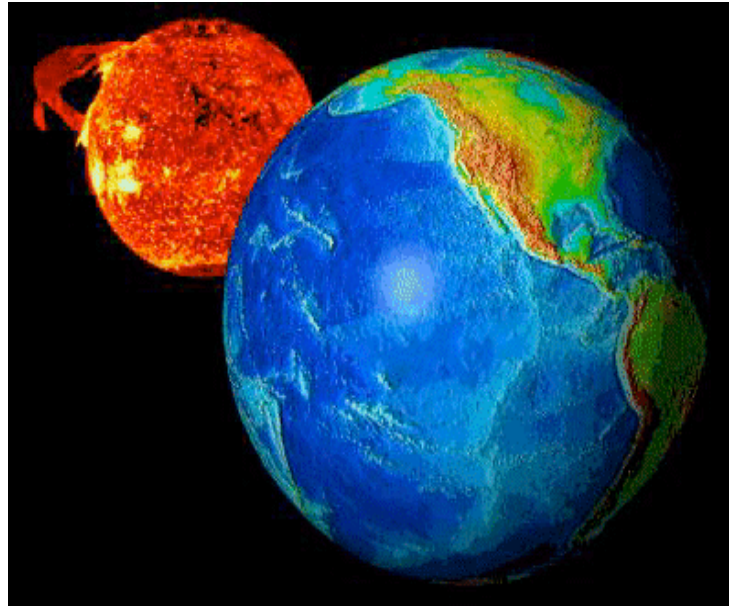




Air Force Weather Space Weather Issues



**Living With a Star
Sensing Requirement Workshop**



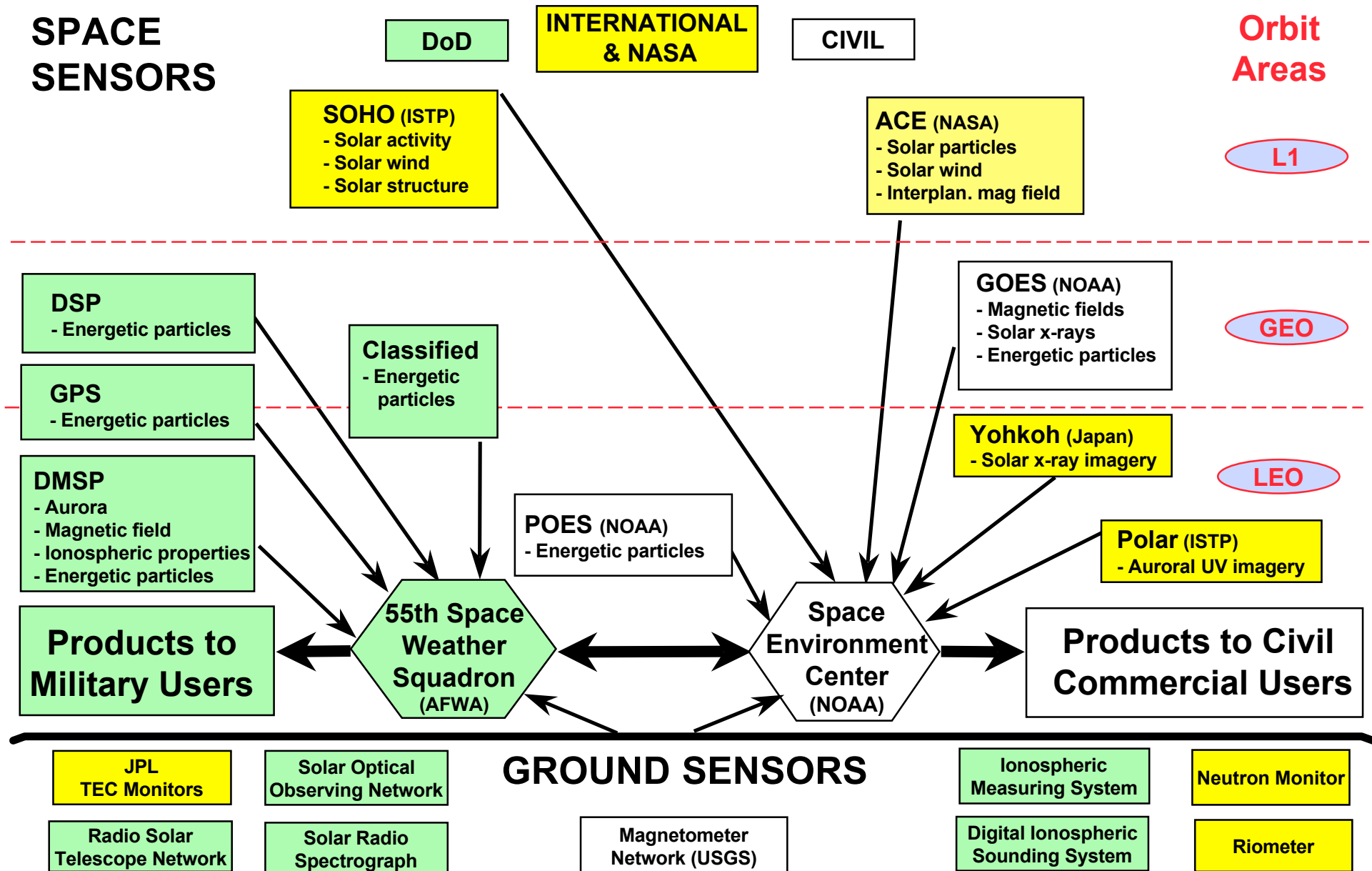
DoD Space Weather Observational Requirements

- Air Force Space Command (AFSPC) documents DoD space weather requirements
 - Air Force Weather Agency assists AFSPC. Responsible for ground based capabilities
 - Requirements driven by mission support needs i.e application to DoD Ops.
- Requirements stated in several documents
 - MJCS 154-86; SEM SON, DMSP SORD, NPOESS IORD, SW_x CRD
- Space-based sensing includes:
 - Ionospheric and Auroral characterization, Radiation and electric field, geomagnetic field specification, Neutral density, Cosmic rays, Energetic particles, UA Airglow
- Solar Observation (Space- or ground- based)
 - Continuous observation in Radio, H-Alpha, - X-Ray, EUV (F-10 proxy)



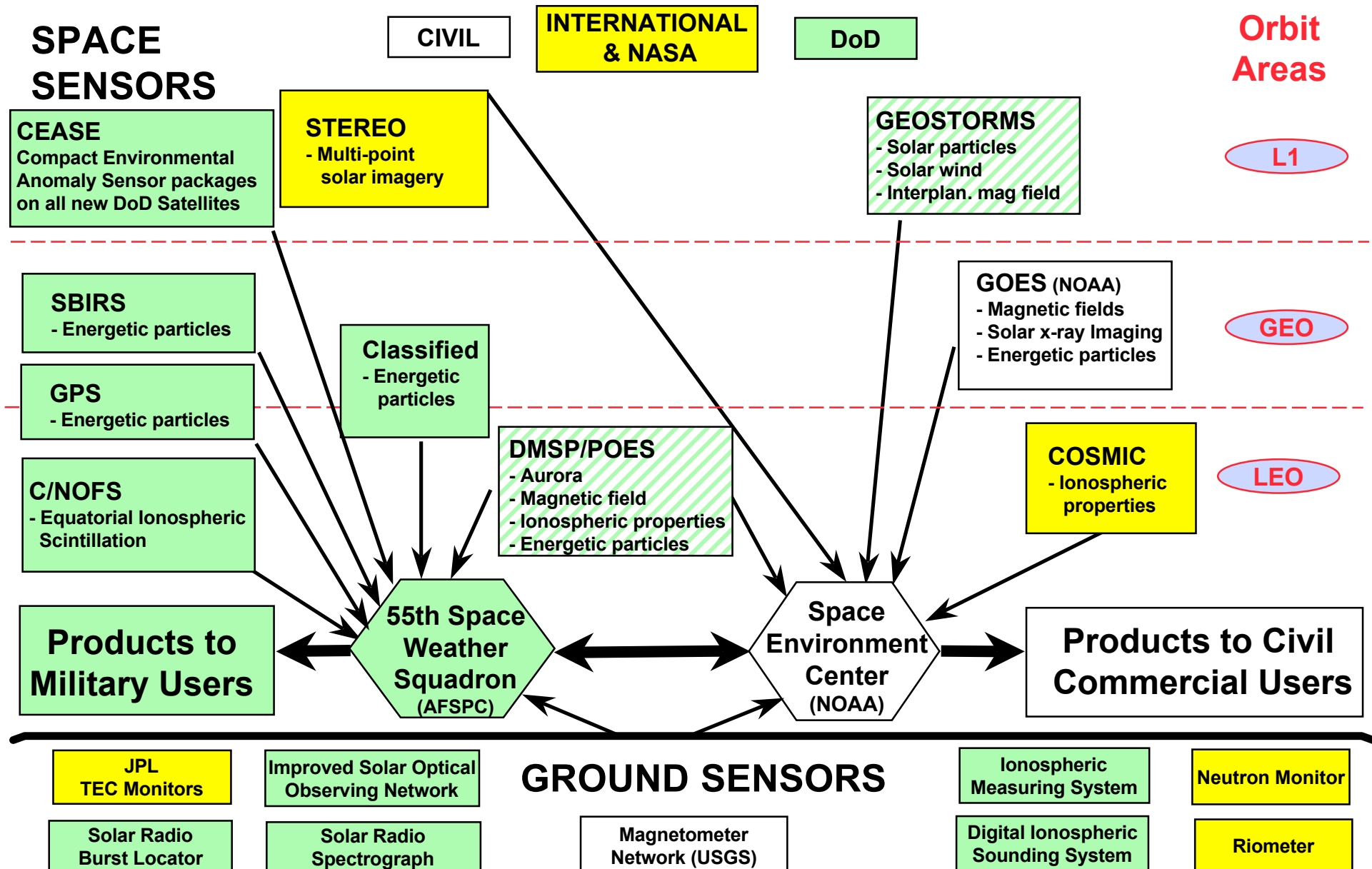
CURRENT SUPPORT STRUCTURE

SPACE SENSORS





FUTURE SUPPORT STRUCTURE





How LWS Can Help

- Augment existing data sources
- Expand the range of observations
- Demonstrate a research capability for applicable to operational support
- Provide data in timely manner for operational evaluation (some Near real time)
- Research to Ops transition assistance